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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-324765

(43)Date of publication of application : 08.11.2002

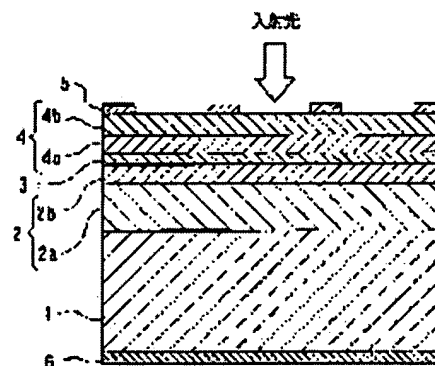
(51)Int. Cl.

H01L 21/28
C30B 29/52
H01L 21/205
H01L 31/04(21)Application number : 2001-127742 (71)Applicant : MITSUBISHI MATERIALS SILICON
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MIZUSHIMA KAZUKI(54) IRON SILICIDE FILM FORMING METHOD, SEMICONDUCTOR WAFER AND OPTICAL
SEMICONDUCTOR DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an iron silicide
film forming method, a semiconductor wafer and an
optical semiconductor device for forming a thick
and continuous β -FeSi₂ film having a good quality.SOLUTION: The method of forming an iron silicide
film layer 4 or β -FeSi₂ on an Si wafer 1 having a
crystal plane (001) on the surface comprises an
SiGe layer forming step of epitaxially growing an
SiGe layer 2 on the Si wafer, and an iron silicide
layer forming step of epitaxially growing the iron
silicide layer on the SiGe layer.

LEGAL STATUS

[Date of request for examination] 28.02.2005

[Date of sending the examiner's decision
of rejection][Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

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[Date of requesting appeal against
examiner's decision of rejection]

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